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ACCESSION NUMBER:

2002-393539 [42] WPIDS

DOC. NO. CPI:

C2002-110599

TITLE:

Polysiľoxane polymers, useful as a wash resistant

hydrophilic softener, in cosmetic formulations for skin and hair care and in polishes, containing amine and

ammonium groups.

DERWENT CLASS:

A26 A87 A96 A97 D21 D25 .F06-

INVENTOR(S):

FIRSTENBERG, D; KROPFGANS, M; LANGE, H; MOELLER, A;

SCHNERING, A; SOCKEL, K; STACHULLA, K; TEUBER, S; WAGNER,

R; WITOSSEK, A; MOLLER, A

PATENT ASSIGNEE(S):

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FIRSTENBERG D; (KROP-I) KROPFGANS M; (LANG-I) LANGE H; (MOLL-I) MOLLER A; (SCHN-I) SCHNERING A; (SOCK-I) SOCKEL

K; (STAC-I) STACHULLA K; (TEUB-I) TEUBER S; (WAGN-I)

WAGNER R; (WITO-I) WITOSSEK A

COUNTRY COUNT:

PATENT INFORMATION:

PAT	TENT	NO		I	KINI	D.P	ATE		WI	EEK		LA	I	PG 1	IIAN	1 I	PC						
WO	200	2010	0259	 9	A1	200	202	207	(20	002	42)	* GI	 S	47	C08	3G0	: 77-:	 54<-					
	RW:	ΑT	BE	СН	CY	DE	DK	EΑ	ES	FI	FR	GB	GH	GM	GR	ΙE	ΙT	KE	LS	LU	MC	MW	MZ
		NL	OA	PT	SD	SE	\mathtt{SL}	SZ	TR	TZ	UG	ZW											
	W:	ΑE	AG	AL	ΑM	AT	ΑU	ΑZ	BA	BB	ВG	BR	ΒY	ΒZ	CA	СН	CN	CO	CR	CU.	CZ	DE	DK
		DM	DZ	ЕÇ	EE	ES	FI	GB	GD	GE	GH	GM	HR	HU	ID	IL	IN	IS	JP	ΚE	KG	ΚP	ΚR
		ΚZ	LC	LK	LR	LS	LT	LU	LV	MA	MD	MG	MK	MN	MW	ΜX	ΜZ	NO	ΝZ	PL	PT	RO	RU
		SD	SE	SG	SI	SK	SL	TJ	TM	TR	TT	TZ	UA	ÜĞ	US	UZ	VN	YU	ZA	ZW			
AU	200	1083	396:	3	Α	200	202	213	(20	002	42)				C08	3G0	77-	54					
ΕP	131	1590) ,		A1	200	305	521	(20	003:	34)	GI	Ξ		C08	3G0	77-	54					
	R:	AL	AT	BE	CH	CY	DE	DK	ES	FI	FR	GB	GR	ΙE	ΙT	LI	LT	LU	LV	MC	MK	NL	PT
		RO	SE	SI	TR																		
JP	200	451	9528	3	W	200	0407	702	(20	004	43)			78	C08	3G0	77-	54					
US	200	4138	3400	0	A1	200	040	715	(20	004	47)				C08	3G0	77-3	26					
MX	200	3000	080	9	A1	200	308	901	(20	004	65)				A6:	LKO	07-	06					

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2002010259	A1	WO 2001-EP8695	20010727
AU 2001083963 EP 1311590	A A1	AU 2001-83963 EP 2001-962879	20010727 20010727
BI 1311390	VT	WO 2001-EP8695	20010727
JP 2004519528	W	WO 2001-EP8695	20010727
		JP 2002-515986	20010727
US 2004138400	A1	WO 2001-EP8695	20010717
		US 2003-333865	20031112
MX 2003000809	A1	WO 2001-EP8695	20010727
		MX 2003-809	20030127

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2001083963	A Based on	WO 2002010259
EP 1311590	Al Based on	WO 2002010259
JP 2004519528	W Based on	WO 2002010259
MX 2003000809	Al Based on	WO 2002010259

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PRIORITY APPLN. INFO: DE 2000-10036536 20000727

INT. PATENT CLASSIF.:

MAIN: A61K007-06; C08G077-26; C08G077-54

SECONDARY: A61K007-00; A61K007-075; C08G077-46; C09J103-00;

C09J189-00; D06M015-643; D06M015-647

GRAPHIC INFORMATION:

BASIC ABSTRACT:

WO 200210259 A UPAB: 20020704

 ${\tt NOVELTY}$ - Polysiloxane polymers comprising amine and ammonium groups are claimed.

DETAILED DESCRIPTION - Polysiloxane polymers have repeating units of formula (I) and (II):

X= at least 4C hydrocarbon having at least one hydroxyl group optionally containing an -O- linkage;

Y = at least 2C hydrocarbon having a hydroxyl group and containing -O- or -N- linkages;

R1-R4 = 1-4C hydrocarbon or benzyl or R1 and R3 or R2 and R4 are optionally components of a bridging alkylene group;

R6 = H or 1-20C alkyl;

E = -B-O-(EOx)v(POx)w-B-;

EOx = ethylene oxide unit;

POx = propylene oxide unit;

B = 2-6C alkylene;

v, w = 0-200;

v+w = at least 1;

n = 2-1000; and

A- = inorganic and organic ion.

An INDEPENDENT CLAIM is included for a process for the production of polysiloxane polymers by reaction of a bis epoxide terminated polysiloxane of formula (III) with a bis amine of formula (IVa) and (IVb) in any order, optionally with addition of a monoamine of formula (IVc).

X = at least 4C divalent hydrocarbon having an epoxy group and optionally containing -O-linkages.

USE - The polysiloxane polymer (I) is useful as a wash resistant

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hydrophilic softener on the basis of a quaternary ammonium group containing siloxane for textiles or in cosmetic formulations for skin and hair care, in polishes for the treatment of hard surfaces, in formulations for the drying of automobiles and other hard surfaces following machine washing, for the care of textiles and textile fibers, as a separate softener following the washing of textiles with non-ionic or anionic/nonionic detergent formulations, as a softener in non-ionic or anionic/nonionic surfactant formulations for the washing of textiles (claimed).

ADVANTAGE - The polysiloxane polymer has improved resistance to washing. Dwq.0/0 TECHNOLOGY FOCUS: WO 200210259 AlUPTX: 20020704 TECHNOLOGY FOCUS - POLYMERS - Preferred Composition: The polysiloxane polymer is a cyclic or linear polymer of formula (V) or (VI): Z1 = H, OH, alkyl, epoxy or alkoxy or at least 4C hydrocarbon having at least one OH group, optionally containing at least one -O- linkage or is of formula (VII) or (VIII); R5 = 1-20C alkyl;Z2 = formula (IX);n = 5-200 (5-20);m, s = at least 1;X = formula(X) - (XV);Y = -(CH2)o;o = 2-6;R = -CH3;化乙酰糖 经统行 医红斑硷 B = -CH2CH2 - or -CH2CH(CH3) -;R1-R4 = CH3;v, w = 0-100 (0-70), preferably 0-40; and A- = A- is chloride, bromide, hydrogensulfate or sulfate or acetate, propionate, octanoate, decanoate, dodecanoate, tetradecanoate, hexadecanoate, octadecanoate or oleate. The polysiloxane polymer (I) is in protonated form as a amine salt. FILE SEGMENT: CPI AB; GI MANUAL CODES: CPI: A06-A00E; A12-G; A12-V04; A12-W12A; A12-W12C; D08-B03; D08-B09; D11-A02B; D11-B15; D11-D01B;

FIELD AVAILABILITY:

F03-C05

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